

ClaimsSub
a4

1. A wheel retention device comprising:
 a base adapted for mounting on a rack and
 including an open cavity having a central axis, said
 5 open cavity being sized to receive a portion of a wheel
 therein; and
 a retention ring mounted on said base, said
 retention ring adapted to rotate generally around said
 central axis so as to enclose said cavity and secure a
 10 wheel therein.

2. A wheel retention device according to claim 1
 wherein said open cavity is sized to receive a portion
 of a rim and a tire of a bicycle wheel therein.

- 15 *Sub a4* 3. A wheel retention device according to claim 1
 wherein said base includes a generally cylindrical
 outer surface and wherein said retention ring is
 adapted to rotate generally around said cylindrical
 20 outer surface.

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4. A wheel retention device according to claim 3
 wherein said retention ring extends circumferentially
 approximately 270° around said central axis.

- 25 *Sub a5* 5. A wheel retention device according to claim 3
 wherein said outer surface includes a groove formed
 therein, said retention ring being rotationally mounted
 within said groove.

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30 6. A wheel retention device according to claim 5
 wherein said groove includes beveled surfaces and
 wherein said retention ring includes mating beveled
 surfaces such that the retention ring is nominally
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positioned with said mating beveled surfaces aligned with said beveled surfaces.

7. A wheel retention device according to claim 1
5 wherein said open cavity includes a shoulder so as to mount said base on said rack.

8. A rack for securing a wheeled vehicle therein, comprising:

10 a first wheel well adapted for receiving a first wheel of the wheeled vehicle therein;

a second wheel well operatively connected to said first wheel well, said second wheel well comprising a channel; and

15 a wheel retention device including a base adapted for mounting on said channel and a retention ring mounted on said base, said retention ring adapted to rotate with respect to said base so as to retain a second wheel of a wheeled vehicle within said base
20 thereby securing the wheeled vehicle to the rack.

9. A rack for securing a wheeled vehicle according to claim 8 wherein said base includes a central opening extending therethrough, said central
25 opening adapted for receiving a wheel therein.

10. A rack for securing a wheeled vehicle according to claim 9 wherein said retention ring is adapted to rotate with respect to said base so as to enclose said
30 central opening thereby securing a wheel therein.

20 11. A rack for securing a wheeled vehicle according to claim 8 wherein said base includes a periphery and a groove formed therein, said retention
35 ring being mounted within said groove.

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15. A method of securing a wheeled vehicle to a rack comprising the steps of:

placing a second wheel of the wheeled vehicle in a second wheel well of the rack, said second wheel well having a wheel retention device mounted thereon;

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